

[illegible]

```

; APPLICANT: Dougherty, Brian A
; APPLICANT: Goldberg, Steven L
; APPLICANT: Hofle, Gerhard
; APPLICANT: Mueller, Joachim
; APPLICANT: Reichenbach, Hans
; TITLE OF INVENTION: DNA sequences for enzymatic synthesis of polyketide or
; FILE REFERENCE: PCT/US 99/23535
; CURRENT APPLICATION NUMBER: US/09/413,814
; CURRENT FILING DATE: 1999-10-07
; EARLIER APPLICATION NUMBER: DE 198 46 493.2
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 78
; LENGTH: 882
; TYPE: PRT
; ORGANISM: Sorangium cellulosum
; US-09-413-814-78

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alignment_scores:
  Quality: 140.50      Length: 300
  Ratio: 1.152         Gaps: 14
  Percent Similarity: 40.667  Percent Identity: 26.667

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alignment_block:
US-09-303-518D-571 x US-09-413-814-78 ..

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Align seg 1/1 to: US-09-413-814-78 from: 1 to: 882

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152 AGGAAGACGGCGCGCATGTCGCCAATATGCGGCGGGTTTGAAC 201
    |||::: ||| ||| ||| ||| ||| ||| ||| ||| |||
346 ArgArgProThrArgProSerArgPro.....ArgArg.....Th 357
202 CCGGACACGCGA..... 214
357 rProSerArgArgArgArgSerProAlaArgThrProGlyProArgSerp 374
215 ..CGGTCAAGCGCGTTTTCGGAACGCCAAGATCGGGTTGAACTTG 262
    |||::: ||| ||| ||| ||| ||| ||| ||| ||| |||
374 roArgArgArgProSerProSerAlaArgSerProAlaLeuArgpGluArg 390
263 CCGCGCGCGTTTCAAAAACGGGAAGACATCGAACAATGTTCAAGCG 312
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
391 ProProArgArgProArgpArgArgProArgArgLeuArgProAla 407
313 GTACAGCGCGTGGGACACGCT..... 332
407 laArgArgLeuAlaArgArgpProGlyAspValProAspProAla 423
333 .....GCAGCAGCGCTT..... 344
424 AlaArgArgArgAlaProAlaAlaGlyAlaLeuProGlyAlaAspGlyAr 440
345 .....GGACAAGCGCGAAGGCGTCTGTTCATCAGCGCGACATC 384
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
440 gGlyAlaArgGlyProGlyArgArgArgAlaProArgArgGlyAla... 455
385 GGCAGCTAGCATTTGGCGGCGCTCATCAGCAGCGCGCTCGCTCCA 434
456 .....AlaAlaArgValPro..... 460
435 CCGTACCGCGCAT.....GTACAAAGC 454
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
461 ProAspArgAlaAspProProArgArgProAlaProAlaValAlaArgAl 477
455 CCGCGAAAATCAAGCGATAGACAAAATCATCAGCGCGG..... 494
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
477 aaLaProAlaValAlaArgArgSerAlaArgAlaGlyInProGlyValG 494
495 .....CAGGTGCGCGCA..... 509
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494 lnhisProValArgGlyAlaArgAspGlyProAlaArgArgArgAla 510
510 .....AGGCAAAACCGCGCCACCGCATCATCAAGGGGTCA 544
511 ProProGlnProValArgAspArgAlaAlaProArgGlyAlaAspAsp 527
545 AACCAATCATCAAGC.....CTGCGCGCGGCG 573
    ::||| ||| ||| ||| ||| ||| ||| ||| ||| |||
527 pValGlnArgGlnGlyArgArgAlaValProGlyArgArgAlaArgGlyp 544
574 GAGCAACCATCATCTGCGCGACCGACCT...CCCTCTCCGACGAGAG 620
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
544 roGlyAlaValProAspValArgProArgAlaProArgGlyArgGlyPro 560
621 CGCGCGCGGTGGCGGATTTTTCGCCAACCTGCATACCATATGCAC 670
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
561 ArgArg..... 562
671 TGCGCGCAAAATTTGACACGTCGCAAGCGGTGAACCGTTTTCCTGC 720
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
563 ...GlyGlyLeuGlyAlaArgProArgGlyGluProArgAla.....V 576
721 TGCGACGCGCTGCGCGCGGACGAGCGTGTGTGCATCCGCGCGCT 770
    ::||| ||| ||| ||| ||| ||| ||| ||| ||| |||
576 aArgProGluProArgAlaAlaProProArgAlaGlyHisProGlyAla 592
771 CCAAGGGGAATTGAAGCGCAACAAAGCCGATGCCCGCTGTTCAA 818
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593 ProArgArgAlaArgHisArgAlaArgAlaProArgArgValArg 608

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seq.name: /cgn2_6/ptodata/1/laa/6B_COMB.pep:US-09-199-637A-293

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seq_documentation_block:
; Sequence 293, Application US/09199637A
; Patent No. 6355411
; GENERAL INFORMATION:
; APPLICANT: Ausubel, Frederick
; APPLICANT: Goodman, Howard M.
; APPLICANT: Rahme, Laurence G.
; APPLICANT: Mahajan-Miklos, Shalina
; APPLICANT: Tan, Man-Wah
; APPLICANT: Cao, Hui
; APPLICANT: Drenkard, Eliana
; APPLICANT: Tsongalis, John
; TITLE OF INVENTION: VIRULENCE-ASSOCIATED NUCLEIC ACID
; TITLE OF INVENTION: SEQUENCES AND USES THEREOF
; FILE REFERENCE: 00786/361002
; CURRENT APPLICATION NUMBER: US/09/199,637A
; PRIOR FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: 60/066,517
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 293
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-199-637A-293

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alignment_scores:
  Quality: 131.50      Length: 253
  Ratio: 1.096         Gaps: 14
  Percent Similarity: 47.431  Percent Identity: 30.040

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alignment_block:
US-09-303-518D-571 x US-09-199-637A-293 ..

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Align seg 1/1 to: US-09-199-637A-293 from: 1 to: 262

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144 CCTTTAAAGGAAGACGCGCGCATGTCGCCAATATGCGGACGCGG 193
    ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
4 ProAlaGlnGlyArgProValHisLeuGlnArgAlaGlyLeaGly.. 19

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194 GTTGAACCCGACGACGAGCGTCAAGCGCTTTTGGGAAGCGCA 243
20 .....ArgasprglYArglnHISglAlaIArglnAla 31
244 AATGCGGTTTGGAACTGCCCCCGCTTTTCAAAAACCGGACAT 233
31 laaIaArgProglY.....ArgValAlaInglYlaIglYlucys 44
294 CGAACAATGTT.....CAAAAGGCTACACGCGTGGGAACGCTGC 334
45 ArgglYlnProAlaIArgprArgSerglYlaIArgProglYlaIArggl 61
335 AGCAGGCTTTGGACAAAGGCGGAGGCTGCTGTTCATCAGCCGACATC 384
61 YValAlaIArgProglYlaIglYln.....ValHISArgArgHISa 74
385 GGCAGCTACATTTGGCGGACGCTACATCAGCCAGCGCTTCC..... 428
74 spGlAlaIArgArgglYArglnAlaIArgProglYlaIArgSerArgglY 90
429 ...GTTCCACCTGACCGCCATGTACAAAGCCGCAAAATCAAGCGATAG 475
91 ArgAspArgProAspHISArgProglYProAlaAla.....AlaAspgl 104
476 ACAAAATCATGACGAGGCGGCGGAGGCGCAAAAGCGCAAAAGCCGCCC 525
104 nglYlnProglYlaIAspArgArgThIArgArgArglnAspArg...H 120
526 ACCGGATACAAAGGCTCAAAATCATCAAGCGCCCTGCGCGCGGCGCA 575
120 laIArgArgglYArgProAlaHISglAlaIArgArgSerAlaIArg 136
576 ...GGCAACCATGCTGCGCCGACACGTCCTTCCGCAAGAGCGG 622
137 ProglYlnIglYlaIArgProAlaIglYArgProglYlaIAspArg 153
623 G.....CGCGTGTGGCGGATTTTGGCAAACTGATAC 660
153 gCysglYlnIArgArgArgValArgglY..... 162
661 ACCATGACACTGGCGG.....AAATTTGGACACAGTCAAGCGGTAA 704
163 ..ThIArgProglYArgThIArgThIglYlnAlaIglYArgProglY 178
705 AACCGTGTCTGCTGGGAAGCGCTGCCGACGACAGCGCTTGCCT 754
179 HISProvalHIS.....ArgArgThIArgHISglYArgArgArggl 193
755 TGCA.....CATCGCCCGGTCGCAAGGGGA 780
193 nglYlnIArgCysHISglYArgArglnHISlaIglYlnIglYserglY 210
781 TTGAACGCGCAAAAGCCGACATGC.....CGCGTGTTCAGCG 821
210 laIArgArgglYlaIaIeulArgArgCysTYTYTYArgArgArgValSerPro 226
822 CAATACCGA 830
227 ValHISArg 229

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seq_name: /cgn2_6/ptodata/1/laa/5B_COMB.pep:US-09-199-637A-277

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seq_documentation_block:

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; Sequence 277, Application US/09199637A
; Patent No. 6355411

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; GENERAL INFORMATION:

```

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; APPLICANT: Ausubel, Frederick

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; APPLICANT: Goodman, Howard M.

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; APPLICANT: Rahme, Laurence G.

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; APPLICANT: Mahajan-Miklos, Shalina

```

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; APPLICANT: Tan, Man-Wah

```

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; APPLICANT: Drenkard, Eliana
; APPLICANT: Tsongalis, John
; TITLE OF INVENTION: VIRULENCE-ASSOCIATED NUCLEIC ACID
; FILE REFERENCE: 00786/361002
; CURRENT APPLICATION NUMBER: US/09/199,637A
; CURRENT FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: 60/066,517
; NUMBER OF SEQ ID NOS: 437
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 277
; LENGTH: 558
; TYPE: PR1
; ORGANISM: Pseudomonas aeruginosa
; US-09-199-637A-277

alignment_scores:
  Quality: 131.50      Length: 368
  Ratio: 0.859        Gaps: 18
  Percent Similarity: 41.576  Percent Identity: 25.272

alignment_block:
  US-09-303-518d-571 x US-09-199-637A-277  ..

Align seg 1/1 to: US-09-199-637A-277 from: 1 to: 558

18 CAGGCTGTTCGCCCTTTGGCAACCGGCATGCA.....CA 52
17 GlnAlaValAlaIArgProAlaHISglArgSerAlaThIArglnIglYlnI 33
53 TCTGTGTACCGGCTGCTCAAAATGCTGCTGCTGCTGCTGCTGCTGCT 102
33 salArgProAspArgArgglYArglnProHISProHISglYAspArgglY 50
103 CTGCA.....CAGCGTCAAAAGCGCTTTGGCGA 131
50 InAlaIglYThIArgSerArgArgProSerProAspProAlaIglYlaI 66
132 TCTGCGCTTTTACCTTTAAAGGAAGCGCGCGCGATGCTGCCAA.. 179
67 ArgAlaIaIglYlaIglYlnIglYArgArgArgSerHISglInAlaIArg 83
180 ....TATGCGGACAGCGGCTTTGAACCCGACAGCA..... 212
83 ogIYlnAlaIglYlnIglYTYTYTYArglnAlaIArgAlaIArgIleArgArg 100
213 .....GAGGTCAAAGCGCTTTTGGCGA... 236
100 roIArgglYAspLeuGlYValaIArglnIglYArgglYlaIglYleuGlYlaI 116
236 ..... 236
117 AspProAlaIglYAspArgAlaIglYlnAlaIglYAspIglYlnAlaI 133
237 .AACGGCAAAATGCGGCTTT..... 254
133 agIlnIglYArgProArglnHISglYlnAlaHISProvalProAspHISArg 150
255 ....GGAAGTGGCCCGGCTTTTCAAAAACCGGAAGACATCGAAG 299
150 lYArgProglYThIArgProAlaIAspIglYArgProAlaIArglnAspArgglY 166
300 AATGTT.....CAAGCGGTACACGCGCTGGAACAGCGTCAAGCGCTT 343
167 ProValAlaIaIaIaIaIaIaIaIaIaIaIaIaIaIaIaIaIaIaIaI 183
344 T.....GGAAGGCGGCA 357
183 egIlnValaIAspArgTYTYTYProglYlaIglYlnAspAlaIArgglYlaIArg 200
358 GGCCTGCTGTTCATCAGCGC..... 377

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630 GTGGGGGATTTTTCGCAACCTGCATACACATGACACTGGGGCAA 679
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235 ProAlaGlyGlyArgArgArgThrsSala.....SerSerAlaProPr 249
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680 AATTGGCAACGCTCAAGCGCTGAACACCTGTTTCTGTGCGCAAGC 728
      |||
249 oThrArgThrsProProLySerAlaProGlyAlaSerAlaArgThrs 266
      |||
729 .....CTGCGCGAGCAGACA 743
      |||
266 eThrThAlaSerThrsSerSerSerCysAlaTyrThAlaAlaArgThr 282
      |||
744 AGGCTTCGTGTGCACATCCGCGCGCTCAAGGGAATTGAAGCGCAACA 793
      |||
283 .....ProArgGly..... 285
      |||
794 AAGCCACAGATGCCCGCTGTTCACCGCAA 824
      |||
286 .HisProAlaAlaArgArgThrsHisProGln 295

seq.name: /cgn2_6/ptodata/1/laa/5B_COMB.pep:US-09-413-814-79

seq_documentation_block:
; Sequence 79, Application US/09413814
; Patent No. 6225064
; GENERAL INFORMATION:
; APPLICANT: Gesellschaft fuer Biotechnologische Forschung mbH
; APPLICANT: Bristol-Myers Squibb, Co.
; APPLICANT: Beyer, Stefan
; APPLICANT: Bloeker, Helmut
; APPLICANT: Brandt, Petra
; APPLICANT: Cino, Paul M
; APPLICANT: Dougherty, Brian A
; APPLICANT: Goldberg, Steven L
; APPLICANT: Hoelle, Gerhard
; APPLICANT: Mueller, Joachim
; APPLICANT: Reichenbach, Hans
; TITLE OF INVENTION: DNA sequences for enzymatic synthesis of polyketide or
; FILE REFERENCE: PCT/US 99/23535
; CURRENT APPLICATION NUMBER: US/09/413, 814
; EARLIER FILING DATE: 1999-10-07
; EARLIER APPLICATION NUMBER: DE 198 46 493.2
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 79
; LENGTH: 1213
; TYPE: PRT
; ORGANISM: Sorangium cellulosum
US-09-413-814-79

alignment_scores:
      Quality: 121.00      Length: 291
      Ratio: 0.917      Gaps: 15
      Percent Similarity: 45.361      Percent Identity: 27.835

alignment_block:
US-09-303-518D-571 x US-09-413-814-79 ..
Align seg 1/1 to: US-09-413-814-79 from: 1 to: 1213

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16 ArgProAlaArgArgGlyAspArgArgGlyGlyLeuAlaLeuArgSerAs 32
      |||
155 AAGACCGCGCGCATCGTCCCAATAT.....GGCGAGAGCG 192
      |||
32 patGluArgAlaArgArgGlyHisGlyGlyLeuGlyAlaGlyG 49
193 GGTTTGAACCCGACGACGAGCGTCAAGCGCTTTTTCGCGAAACGCGC 242
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49 LyArgArgAlaArgArgAlaAlaArgArgArgGlyLeuProAlaProGly 65
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243 AAA.....ATGCGGTTTGG 256
      |||
66 ProSerProProArgGlyAlaProGlnAlaProProGlyAlaArgArg 82
      |||
257 AACTTGGCCCCGGTTTTCAAAAACCGGAGACATCGCAACAAATGTC 306
      |||
82 yPro...ProArgProHisAlaValGlyGlyArgArgArgAspArgLeu 98
      |||
307 AAGCGGTACACGCGCTGGGAACAGTCGACAGAGCTTTGGACAAGCGCA 356
      |||
98 laArgGlyHisArgAlaProArgArgArgArgGlyArgAlaValAlaArg 114
      |||
357 AGGCTCCTGTTCATCAGCGCGCATGCGAGCTA...CGATTGGG.. 401
      |||
115 AlaAlaArgArgAlaProAlaAlaArgArgGlyHisGlyArgProGlyLe 131
      |||
402 .CGGAGCGTCAAT.....CAGCGACAGCGTTCCG 429
      |||
131 uArgAspLeuHisValArgValHisGlyAlaAlaGlnGlyArgAspAsp 148
      |||
430 TTCACCTGACCGCCATGTACAAACCGCGCAAAATCAGACGATAGCAA 479
      |||
148 rArgProProArgArgGlyGlnHisGlyProArgHisGlnProProLeuArg 164
      |||
480 AATCATCAGGCGGCGAGGCTGCGCGG..... 506
      |||
165 ArgArgProGlyGlyProGlyAlaArgAlaLeuValAlaGlnLeuArgPr 181
      |||
507 .....CAAGCGCAAAACCGCGCCACCGCATACAGAGGAGGTCAAA 546
      |||
181 oValGlyLeuArgArgValArgAspAlaArgArgArgArgArgArgArg 198
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547 CAATCATCAAGCGCTGCGCGCGGAGGCAACATCATCTGCGCGCA 556
      |||
198 sProArgProTyrProArgLeuGlySerGly.....AlaLeuAlaArg 212
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597 CCAGCTCCCTTCGCGACAGAGCGGCGCGCTGTGCGCGGATTTTTCG 646
      |||
213 AlaArgGlyAlaArgAlaGlyAspArgValGlnLeuGly..... 225
      |||
647 GCAAACTGATACACCATGACACTGCGCGCAAAATGCGACACATCAAA 656
      |||
226 ....ProGlyAlaAspArgAlaHisGlyArgVal.....ProA 238
      |||
697 GCGGTGAACCGCTGTTTCTGCTGCGCAACGCTGCCGA...CGGACA 743
      |||
238 rArgGlyArgProGlyAlaValAlaAlaProProArgHisAspGluArg 254
      |||
744 AGGCTTCGTGTGCACATCCGCGCGCT.....CGAAGGGAATTGACG 787
      |||
255 ArgLeuAspProAlaGlnAlaProArgSerHisProArgGlyLeu.... 269
      |||
788 GCAACAAAGCCACGATGCCGCGCTGTTCACACCGCATACGCA..... 830
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270 .....ProArgAlaProArgArgGlnProArgArgArgAspArgG 283
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831 .....ATATTGATACGCGG 845
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283 LyValAspLeuValAspArgPro 290

seq.name: /cgn2_6/ptodata/1/laa/5B_COMB.pep:US-08-327-832-5

seq_documentation_block:
; Sequence 5, Application US/08327832
; Patent No. 5840832
; GENERAL INFORMATION:
; APPLICANT: Ono, Santa J
; APPLICANT: Strominger, Jack L.
; TITLE OF INVENTION: Transcription Factor Regulating MHC
; Expression, cDNA and Genomic Clones Encoding Same and
```

```

: TITLE OF INVENTION: Retroviral Expression Constructs Thereof
:
: NUMBER OF SEQUENCES: 16
: CORRESPONDENCE ADDRESS:
: ADDRESS: Panner, Birch, McKie & Beckett
: STREET: 1001 G Street, N.W.
: CITY: Washington, D.C.
: STATE: District of Columbia
: COUNTRY: U.S.A.
: ZIP: 20001
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/327,832
: FILING DATE:
:
: CLASSIFICATION: 530
: ATTORNEY/AGENT INFORMATION:
: NAME: Posorske, Laurence H.
: REGISTRATION NUMBER: 34,698
: REFERENCE/DOCKET NUMBER: 1107,46362
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 202-508-9299
: TELEFAX: 202-508-9153
:
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1104 amino acids
: TYPE: amino acid
: TOPOLOGY: linear
: MOLECULE TYPE: protein
:
: US-08-327-832-5

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alignment\_scores:

Quality:	119.00	Length:	374
Ratio:	0.937	Gaps:	17
Percent Similarity:	33.957	Percent Identity:	19.786

alignment\_block:

US-09-303-518D-571 x US-08-327-832-5 ..

Align seg 1/1 to: US-08-327-832-5 from: 1 to: 1104

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553 AsnHstHcYsSerGlnValCysHstHcProGlnProCysGlnGlnCysPr 569
59 ....TGACGGCCGCTGCTCAATGCTCTCCCTGCTGCTGCTTCTGTCT 104
   ||| ::|||::||| ||||| ::|||
569 CArgLeuProGlnLeuValArgCysCysProCysGlnGlnThrProLeus 586
105 GCACACGCTGGGAAACCGCTCGGACATCTGCGTTTACTTTTAAG 154
   ||| ||| |||||::||| ||||| |||
586 ergInleuLeuGlnleuGlnSerSer.....Arg 596
115 AAGACCGCGCGCGCATGCTCGCAATATGCGGACGGCGGTTTGAACCC 204
   |||||::||| ||| |||||
597 LysThrCysMetAspProValProSerCysGly..... 607
205 GACACGACGAGGCGTCAAGCGGTTTTCGGAAACGGCAAAATGCGGTTT 254
607 ..... 607
255 GGAACCTGCCCCCGGTTTTCAAAAAACGAGACATCGAAACAATGT 304
   ||| |||
608 .....LysValCys 610
305 TCAAAGCGGTACACGCTGGG.....AACACGTGCACAG 339
   ::||| ::|||::|||::|||::|||
611 GlyLysProLeuProCysGlySerLeuAspPheIleHstHcCysGln 627
340 GCTTTGGACAGGGGGAAGGCTGCTGTTCATCAAGCCGCGCATCGGAC 389

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: ||| ::||| ||| |||||::|||
627 sleu...CysHstGlnGlnLysArgCysGlyProValSerArgThrSerVal. 642
390 CTACGATTTGGCGGAGCGCTTACATCAGACCGAGCTTCCTCCACTTCA 439
643 .....IleSerCysArgCysSerPheArgThrLysGln 653
440 CCGCATGTACAGCGCGCGGAA.....TCAA 468
   |||||::||| ::|||
654 LeuProCysThrSerLeuLysSerGlnAspAlaThrPheMetCysAsp 670
469 GCGATACGAA.....TCATGACGCGGCGAG 497
   |||| ::|||
670 sarCysAsnLysLysArgLeuCysGlnArgHstHcCysAsnGlnIleC 687
498 GCTCCGCGGGAAGCGCAACCGCGCCA..... 526
   |||||::||| |||
687 yscysValAspLysGlnHstLysCysProLeuAsnCysGlnArgLysLeu 703
527 .....CCGCGATACAGGCGTCAACAA 549
   |||||::||| ::|||
704 ArgCysGlnLeuHstArgCysGlnGlnProCysHstArgGlnAsnCysG 720
550 ATCA..... 553
   ::|||
720 nThrCysTrpGlnAlaSerPheAspLeuThrCysHstCysGlnAlaAs 737
554 .....TCAAGGCC..... 562
737 eValIleLysTrpProValProCysGlnThrArgProGlnCysThr 753
563 .....TGCGCGCGCGGAGGCA..... 580
   |||||::|||::|||::|||
754 GlnThrCysAlaArgValHstGlnCysAspHstProValThrHstSerG 770
581 .....CCATCATCTGCCGACGACGCTCCCTTCCGAGAGAGCGG 623
   ::|||::|||::|||::|||
770 yHstSerGlnGlnLysCysProProCysThrPheLeuThrGlnLys... 785
624 CGCGGCTGTGGCGGATTTTTCGCAACCTGATTCACATGACACCTGG 673
786 .....TTP 786
674 CGGCAAAATTTGGCAGACGTCGAAGCGGTGAACCTGTTT..... 715
   ::||| ||| ::|||
787 CysMetGlnLysHstGlnPheArgSerAsnIleProCysHstLeuValAs 803
716 .....TCTGCTGCGAAGCGCTGCGG..... 736
803 rIleSerCysGlnLeuProCysSerAlaThrLeuProCysGlnMetHstL 820
737 .....ACGACAGGCTTCGTTTGCACATCCGCGCGCTCC 772
   |||||::||| |||||::|||
820 yscysGlnArgLeuCysHstLysGlnGlnCysLeuValAspLeuProCys 836
773 AAGGGAATTTGAACGGCAACAAAG.....CCGACATGCC 807
   ||| |||::||| ||| |||
837 LysGlnProCysThrThrProArgAlaAspCysGlnHstProCysMetAl 853
808 GCGCGTGTCAACCGCAATACCG 829
853 aProCysHstHstSerSerPro 860

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seq\_name: /cgn2\_6/plodata/1/laa/5B\_COWB\_pep:US-08-828-584-5

seq\_documentation\_block:

```

: Sequence 5, Application US/08828584
: Patent No. 5908762
: GENERAL INFORMATION:
: APPLICANT: Ono, Santa J.
: APPLICANT: Strominger, Jack L.
: TITLE OF INVENTION: Transcription Factor Regulating MHC
: Expression, cDNA and Genomic Clones Encoding Same and

```

TITLE OF INVENTION: Retroviral Expression Constructs Thereof  
 NUMBER OF SEQUENCES: 16  
 CORRESPONDENCE ADDRESS: 16  
 ADDRESSEE: Banner, Birch, McKie & Beckett  
 STREET: 1001 G Street, N.W.  
 CITY: Washington, D.C.  
 STATE: District of Columbia  
 COUNTRY: U.S.A.  
 ZIP: 20001

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patentin Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/828,584  
 FILING DATE:  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Posorske, Laurence H.  
 REGISTRATION NUMBER: 34,698  
 REFERENCE/DOCKET NUMBER: 1107,46362  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 20-2 508-9153  
 TELEFAX: 202 508-9299  
 INFORMATION FOR SEQ ID NO: 5:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1104 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-828-584-5

alignment\_scores:  
 Quality: 119.00 Length: 374  
 Ratio: 0.937 Gaps: 17  
 Percent Similarity: 33.937 Percent Identity: 19.786

alignment\_block:  
 US-09-303-518D-571 x US-08-828-584-5 ..

Align seg 1/1 to: US-08-828-584-5 from: 1 to: 1104

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14 AATTCAGGCTGTTCCCTTGGCAACG...CCATGCACATCCTG.. 58
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553 AsnHisThCySerGlnValCysHisProGlnProCysGlnGlnCysPr 569
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59 ...TGACCGCCCTGCTCAAAATGCTCCCTGCTGCTGCTGCTGCTGCT 104
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569 oArgLeuProGlnLeuValArgCysCysProCysGlyGlnThrProLeuS 586
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105 GCACACGCTGGGAAACCGCTCGACATCTGCGCTTTTACCTTTAAGG 154
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586 eArgLeuLeuGlnLeuGlySerSer.....Arg 596
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155 AAGACCGCGCGGCGATCGTCCCAATATGCGGAGCGGCTTTGAAACCC 204
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597 LysThrCysMetAspProValProSerCysGly..... 607
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205 GACACGACGAGCGGTCAAGCCGTTTGGCGAAACGCAAAATGCGGTTT 254
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607 ..... 607
255 GGAAGTTCGCCCGCGTTTCAAAAAACGGAAGACATGAAACATGT 304
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608 .....LysValCys 610
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305 TCAAGCGGTACACGCGCTGGG.....AAGACGTCAGCAG 339
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611 GlyLysProLeuProCysGlySerLeuAspPheIleHisThrCysGly 627
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340 GCCTTGGACAAAGGCGAGGCTGCTTCATCAGCCGCCACATCGGCGAG 389

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627 sLeu...CysHisGlnGlyAspCysGlyProValSerArgHisSerVal. 642
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390 CTACAGATTGGGCGAGCGCTACATCAGCCAGCAGCTTCGTCACCTGA 439
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643 .....IleSerCysArgCysSerPheArgThrLysGlu 653
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440 CCGCATGTACAGCGCGGCAAA.....TCAAA 468
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654 LeuProCysThrSerLeuLysSerGlnAspAlaThrPheMetCysAsp 670
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469 GCGATGACAA.....TCATGACGCGGCGAG 497
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670 sArgCysAsnLysLysArgLeuCysGlyArgHisLysCysAsnGlnIleC 687
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498 GGTGCGCGGCAAGGCAAAACCGCGCCA..... 526
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687 CysValAspLysGlnHisLysCysProLeuAsnCysGlyArgLysLeu 703
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527 .....CCGCATACAGGCGTCAACAA 549
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550 ATCA..... 553
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554 .....TCAAGCGCC..... 562
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563 .....TGCGCGGCGCGAGCA..... 580
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754 GlnThrCysAlaArgValHisGlnCysAspHisProValThrHisSerG 770
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581 .....CCATCATCTGCCCGACACAGCGCTTCGCGGAGGAGGCGG 623
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770 yHisSerGlnGlnLysCysProProCysThrPheLeuThrGlnLys... 785
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624 CGCGCTGTGCGCGGATTTTTCGCAACCTGCATACATGACACTGG 673
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786 ..... 786
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674 CGGCAAAATTGCAACAGCGTCAAGCGTGAACCCCTGTTT..... 715
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787 CysMetGlyLysHisGlnPheArgSerAsnLeuProCysHisLeuValAs 803
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716 .....TGTCTGCGAAGCGCTGCGCG..... 736
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803 pIleSerCysGlyLeuProCysSerAlaThrLeuProCysGlyMetHisL 820
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737 .....ACGGAAGGCTTCGTTTCACATCGCCCGCTGC 772
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773 AAGGGAATTGACGCAACAAAG.....CCACGATGCG 807
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seq.name: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep:US-08-926-636-2

seq\_documentation\_block:  
 ; Sequence 2, Application US/08926636  
 ; Patent No. 6080849  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Bermudes, David  
 ; APPLICANT: Low, Kenneth  
 ; TITLE OF INVENTION: Mutant Salmonella msbs  
 ; NUMBER OF SEQUENCES: 4





APPLICATION NUMBER: US 60/009,832  
 FILING DATE: 01-Jan-1996  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Williams, Ph.D., Kathleen M.  
 REGISTRATION NUMBER: 34,380  
 REFERENCE/DOCKET NUMBER: 96,048-A (3255/00784)  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (617) 345-9100  
 TELEFAX: (617) 345-9111  
 INFORMATION FOR SEQ ID NO: 56:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 181 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: unknown  
 MOLECULE TYPE: peptide  
 US-08-726-306A-56

Alignment\_scores:  
 Quality: 112.50 Length: 201  
 Ratio: 1.293 Gaps: 10  
 Percent Similarity: 43.284 Percent Identity: 27.363

alignment\_block:

US-09-303-518D-571 x US-08-726-306A-56 ..

Align seg 1/1 to: US-08-726-306A-56 from: 1 to: 181

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152 AGAAGACCCCGCGCATCTGCGCAATATCGCGAGCGGGTTTGAAC 201
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13 .....ArgValHisArgIleGlyAlaAlaGlyAlaGln 26
202 CCGACACGACGAGCGGTCAAGCGGTTTGGGA..... 236
    :::: ||| :::: ||| |||
26 roGlnProGly.....GlyArgGlyCysGlyAlaAlaAlaAla 39
237 AACGGCAAAATGCGTTTGAACCTTCCCGCGGTTTTCAAAAACCGG 286
    :::: ||| :::: ||| |||
40 GlyGlyProLeuArgTyrGlyArgAlaValArgAla..... 51
287 AAGACATCGAACAATGTTCAAGGCGTACACGCGTGAACACGTCGAG 336
    :::: ||| :::: ||| |||
52 .....ArgGlyProArgAspAlaArgArgGly 61
337 CAGGCTTGGACAGGCGAAGGCGTCTGTTCATCAGCGCGCACATCGG 386
    :::: ||| :::: ||| |||
61 LaAlaProGlyArgGlyAlaArgSerAlaThr..... 71
387 CAGTACGATTTGGCGGACGCTACATCAGCCACGACTTCCTCCACC 436
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72 .....ProGlyAlaGlyAlaProAl 78
437 TGACCGCATGTACAGCCCGCAAAATCAAGAGATAGCAAAATATG 486
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78 ArgGlyHisArgAlaArgAlaProAlaProArgArgArgGlyProAla 95
487 CA...GGGCGCAGGTCGCGCGCAAGCAAGCAAGCGCGCGCAT 533
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95 LaArgGlyArgGlyGlyProArgAlaGlyAlaLeuArgAlaGly 111
534 ACAAGGGGTCAACATCATCAAGCGCGCGCG..... 569
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112 GlyArgGly.....GlyAlaArgGlyProAlaGluGluGlyAlaGly 126
570 .....GGCGGAGCAAC 582
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126 AlaGlyGlyValArgLeuProAlaAlaProProGlyArgGlyGly 142
  
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583 ATCACTCGCCCGACACGCTCTTCGCGAGGAGCGGCGCTGTG 632
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633 GCG 635
156 Gly 156
  
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seq\_name: /cgn2\_6/prodata/1/laa/6A\_COMB.pep:US-09-248-335-26

seq\_documentation\_block:

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; Sequence 26, Application US/09248335
; Patent No. 6096504
; GENERAL INFORMATION:
; APPLICANT: MCGONIGLE, BRIAN
; APPLICANT: O'KEEF, DANIEL
; TITLE OF INVENTION: PLANT GLUTATHIONE-S-TRANSFERASE ENZYMES
; FILE REFERENCE: CL-1128-A
; CURRENT APPLICATION NUMBER: US/09/248,335
; EARLIER FILING DATE: 1999-02-10
; EARLIER APPLICATION NUMBER: 08/924,759
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: Microsoft Word Version 7.0A
; SEQ ID NO 26
; LENGTH: 370
; TYPE: PRT
; ORGANISM: maize
US-09-248-335-26
  
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alignment\_scores:  
 Quality: 112.50 Length: 273  
 Ratio: 0.953 Gaps: 14  
 Percent Similarity: 43.223 Percent Identity: 24.908

alignment\_block:

US-09-303-518D-571 x US-09-248-335-26 ..

Align seg 1/1 to: US-09-248-335-26 from: 1 to: 370

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78 LysTyrAlaIleGlnGlyAsnProLeuProAspTyrHisGlyAlaGln 94
164 CCG.....CATCTCGCAATATGCGGAGCGGCTTGAACCGCGAC 207
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94 ValAlaGlyValHisArgAlaValAlaAlaAspGlyAlaGluLeuArg 111
208 ACGCAGCGGTCAAGCGGTTTGGCGAAGCGCAAAATGCGGTTTGA 257
    :::: ||| :::: ||| |||
111 rGAla.....GlnArgArgAspGly 117
258 ACTGCCCGCGCTT..... 272
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118 LeuGlnProArgLeuProAlaAlaHisProAlaGlnAlaGlnArg 134
273 .....TTCAAAAACCGGAAGACATCGAAACATGTTCAAA 309
    :::: ||| :::: ||| |||
134 GlnArgArgArgValGlnArgGlnGlyArgHisArgArgGln..... 148
310 GCGGTACAGCGCTGGAACAGCTGACAGCGGTTTGGCAAGGCGCAAG 359
    :::: ||| :::: ||| |||
149 .....GlnArgArgArg 152
360 GCTGCTTTCATCAGCGCGACATCGGACATGATTTGGCGGAGCGT 409
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153 .....ValGlnArgGlnAlaArgCysGlyArgVal.. 162
410 ACATACGACGACGCTTCGCTTCCACTGACCGGCGATGACAGCGCGG 459
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163 .....ThrAlaGlyGlyLeuProAspGlnGlyAlaArgAla... 174
  
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184 Arg.....AlaGluGluGlu 189
560 CCCTGGCGCGGCGAGCGACCATCATCTGCGCCGACGCGCTCCTCT 609
189 yProGlyGluAlaAlaGlyHisLeuArgAlaAlaProGlyGlyHisV 206
610 CGCGAGGAGGCGGCGCGCTGGCGGCGATTTTTCGCAAACTGCATA 659
206 aLProGlyArgArgin.....Leu 212
660 CACCATGACACTGGCGCAAAATTGGCACACGTCAAAAGCGTGAACACC 709
213 HisHis.....ArgArgPr 217
710 TGTTTTCTGCTGCGAAGCGCTGCGGCGG.....ACAAGGCTTCGTG 753
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804 TGCCGCGGCTTCAACCGCAATAC...CGAATATGATGATCGCGCTTTT 850
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seq_name: /cgn2_6/ptodata/1/1aa/5B_COMB.pep:us-08-893-853-3

seq_documentation_block:
; Sequence 3, Application US/08893853
; Patent No. 5891994
; GENERAL INFORMATION:
; APPLICANT: Goldstein, Gideon
; TITLE OF INVENTION: Methods and Compositions for Impairing
; TITLE OF INVENTION: Multiplication of HIV-1
; NUMBER OF SEQUENCES: 85
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr., P.O. Box 457
; CITY: Spring House
; STATE: PA
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/893,853
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GGP205A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 302 amino acids
; TYPE: amino acid

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; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-893-853-3

alignment_scores:
    Quality: 111.50      length: 297
    Ratio: 0.820         gaps: 16
    Percent Similarity: 45.791      Percent Identity: 24.916

alignment_block:
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57 .....GTTGAC.....CGCCCTGCTCAATGCTCTGCTGCTG 92
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93 GCTTCTCTGTCACACGCTGGGAACCGGCTGCGCATCTGCGCTTT 142
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70 ValAspProSerLeuGluProTPrLysHisProGlySerGlyValAs 86
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143 ACCTTTAAAGAAAGCGCGCGCATCTGCGCAATATGAGCGGCGG 192
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86 pPro...ArgLeuGluProTPrLysHisPro.....GlySerSer 99
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193 GGTTCGAACCCCGA.....206
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99 LyValAspProArgLeuGluProTPrAsnHisLeuGlySerSerGlyVal 115
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207 ...CAAGCAGAGCGTCAAAAGCGTTTTCGGAACGCGCAAAATGCGGTT 253
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116 AsPrHisArgLeuGluProTPrLysHisProGlySerGlyAspLeuArg.. 131
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254 TGGAACTTGCCCGCGGTTTTCAAAAACGGGAAGACATCGAATCATG 303
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132 .....GluArgArgArgGlnProG 138
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304 TCAAGCGGTACAGCGCTGGGGAACAGTGCAGAGGCTTTGGACAAGG 353
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138 LnsPserGlySerArg.....Gln 144
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354 CGAAGGCTGCTGTTATCAGCGCGCATCGGCACTGCAATTTGGGG 403
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145 ArgArgArgProProGlnAspSerSerGlyArgGlnArgArg..... 158
   |||||
404 GACGCTTCATCAGCCAGAGCTTCCTCCACTGACCGCCATGTACAG 453
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159 .....ArgProProGln.....162
   |||||
454 CGCGCAAAATCAAGAGATAGCAAAATCATGACGCGGCGGAGGTGG 503
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163 .GlySerGlySerArgGlnArgGlyProProGlnGlySerGlySer 178
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504 CGGCAAGG.....CAAAACCGCGCCACCGCATCAAGG...539
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179 ArgGlnArgArgArgProProGlnAspSerSerGlyArgGlnArgArg 195
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540 .....GGTCAACAAATCATCAAGGCGCTGCGCGG 570
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195 gSerProGlnAspSerGlyArgGlnArgArgArgSerProGlnAsn 212
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571 GCGAGCAACCATCATCTGCGCGACGCTGCTTCCGACGAAG 620
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621 CGCGCGGCTGTG.....GGCGATTTTTCGCAACCTGCATACA 661
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258 .....GlnAspSerGlySerArgGlnArgArgAla..... 268  
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seq\_documentation\_block:

; Sequence 3, Application US/09113921  
; Patent No. 6193981  
; GENERAL INFORMATION:  
; APPLICANT: Goldstein, Gideon  
; TITLE OF INVENTION: Methods and Compositions for Impairing  
; TITLE OF INVENTION: Multiplication of HIV-1  
; NUMBER OF SEQUENCES: 124  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Howson and Howson  
; STREET: Spring House Corporate Cntr., P.O. Box 457  
; CITY: Spring House  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19477  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/113,921  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/893,853  
; FILING DATE: 11-JUL-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Bak, Mary E.  
; REGISTRATION NUMBER: 31,215  
; REFERENCE/DOCKET NUMBER: GGP2AUSA  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 215-540-9200  
; TELEFAX: 215-540-5818  
; INFORMATION FOR SEQ ID NO: 3:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 302 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-09-113-921-3

alignment\_scores:

Quality: 111.50 Length: 297  
Ratio: 0.820 Gaps: 16  
Percent Similarity: 45.791 Percent Identity: 24.916

alignment\_block:

US-09-303-518D-571 x US-09-113-921-3

Align seg 1/1 to: US-09-113-921-3 from: 1 to: 302.

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37 SerSerGlyValAspProLysLeuGlnPro.TPrLysHisProGlyLys 53

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70 ValAspProSerLeuGlnProTPrLysHisProGlySerGlyValAs 86  
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138 InAspSerGlySerArg.....Gln 144  
354 CGAAGGCGTGTGTTGCATACGCGCGACATCGGACAGTATTTGGGCG 403  
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504 CGGCAAAAG.....CAAAACCGCGCCCGCGGACATCAAGG.. 539  
179 ArgGlnArgArgArgProProGlnAsnSerSerGlyArgGlnArgArg 195  
540 .....GTCAAACAAATCATCAAGCGCTCGCGCGG 570  
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seq\_name: /cgn2\_6/ptodata/1/1aa/6B-COMB.pep:US-09-450-072-80

seq\_documentation\_block:

; Sequence 80, Application US/09450072  
; Patent No. 6358734

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; GENERAL INFORMATION:
; APPLICANT: Delcayre, Alain
; TITLE OF INVENTION: Compounds for Treatment of Infectious and Immune System Disorders
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1042c1
; CURRENT APPLICATION NUMBER: US/09/450,072
; EARLIER FILING DATE: 1999-11-29
; EARLIER APPLICATION NUMBER: 09/351,348
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 80
; LENGTH: 582
; TYPE: PRN
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Made in a lab
; US-09-450-072-80

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alignment_scores:
  Quality: 111.50      Length: 315
  Ratio: 0.907         Gaps: 13
  Percent Similarity: 39.048   Percent Identity: 22.222

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Align seg 1/1 to: US-09-450-072-80 from: 1 to: 582

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150 AAGGAAGACCGCGCGCATGTCGCCAATATGGGCGAGCGGTTTGA 199
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328 ..... 328
207 AlaGlySerAspArgGlnAlaserArGthrlValserGlyValProvalGl 223
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257 GlnProAlaglyAspValAlaArGAlaAlaAlaAglySerProtrPr 273
401 .....GGGAGCGTACATCAAGCGCAGCGCTTCCACCTGACCGC 443
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273 ovalArGserValAlaArGProvalAlaValleuArGthrlGlyProProp 290

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494 GCAGGTCGCGCGGCAAGCAAAACCGCGCCCGCATCAAGGCGTC 543
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544 AAACAAATCATCAAGCGCTTCCGCGCGGCGAGCAACCATCATCTGCC 593
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319 .....AspValProAlaGlnAlaArGProAlaValAlhProAla 331
594 CGACCACTGCC.....TTCTCCGAGGAGCGCGGCGG 628
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332 GlyProGlyProAlaAspArGValGlYValAspProGlyArGhAsArGAr 348
629 TGTGGCGGATTTTTCGCAAACTCGATACCATCATCACTGGCGGCA 678
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348 gAlaArG..... 350
679 AATTTGGCACAGCTCAAGCGGTGAAACCTGTTTCTGCTGCAAGC 728
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351 .....GlylnHlsglnProArGAspGlySerlleThrlGlnValGlYArG 365
729 CCTGCCGACGAGCAAGCGCTTGTGTCACATCCGCGCGCGTCAAGGG 778
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366 ProAla.....ValleuPheAlaProGlnGlnArGcy 376
779 AATTTGAAGCGCAAAAGCCGACGATCGCGCGTTCACCG 821
376 sArGArGArGAlaAspGlnArGserCysArGlnlehlsprowr 390

seq_name: /cgn2_6/ptodata/1/laa/6B_COMB pep:US-08-413-974-2

seq_documentation_block:
; Sequence 2, Application US/08413974
; Patent No. 6180368
; GENERAL INFORMATION:
; APPLICANT: Singh, Mohan Bir
; APPLICANT: Knox, Robert B.
; APPLICANT: Smith, Penelope
; APPLICANT: AvJloglu, Asil
; APPLICANT: Theerakulpisut, Piyaada
; APPLICANT: Hough, Terry
; TITLE OF INVENTION: RyeGrass Pollen Allergen
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 6180368rls
; STREET: 1 Liberty Place, 46th Floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/413,974
; FILING DATE:
; CLASSIFICATION: A45
; PRIOR APPLICATION NUMBER:
; APPLICATION NUMBER: US/08/202,861
; FILING DATE:
; APPLICATION NUMBER: US/07/746,703
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Hohenschutz, Liza D.
; REGISTRATION NUMBER: 33,712
; REFERENCE/DOCKET NUMBER: IMPH-0003
; TELECOMMUNICATION INFORMATION:

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218 rgProthrsSerSerProthrsSerArgProthrg.....SerSerArg 232
797 CCCAGCATGCGCGCGTGTCAACCGCATATGATATGATACGCCGT 846
233 ProthrsProthPro.....SerProthrsProthProthVallystYrAlava 248
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seq_documentation_block:
; Sequence 2, Application US/08433288
; Patent No. 6239269
; GENERAL INFORMATION:
; APPLICANT: Singh, Mohan Bir et al.
; TITLE OF INVENTION: RYEGRASS POLLEN ALLERGEN
; FILE REFERENCE: IMI-051CNDI
; CURRENT APPLICATION NUMBER: US/08/433,288
; PRIOR FILING DATE: 1995-05-03
; PRIOR APPLICATION NUMBER: 08/413,947
; PRIOR FILING DATE: 1995-03-30
; PRIOR APPLICATION NUMBER: 08/202,861
; PRIOR FILING DATE: 1994-02-25
; PRIOR APPLICATION NUMBER: 07/746,703
; PRIOR FILING DATE: 1991-08-16
; PRIOR APPLICATION NUMBER: 07/585,086
; PRIOR FILING DATE: 1990-10-26
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 308
; TYPE: PRT
; ORGANISM: Lolium perenne
; US-08-433-288-2

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alignment_scores:
Quality: 108.50      Length: 213
Ratio: 0.969         Gaps: 11
Percent Similarity: 52.582      Percent Identity: 28.169

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alignment\_block:

US-09-303-518d-571 x US-08-433-288-2 ..

Align seg 1/1 to: US-08-433-288-2 from: 1 to: 308

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400 GCGGAGCGTACATCA.....GCCAGCAGCTTCGTTCCACCTGAC 440
72 pProthleupProthProthleuArgAlaThrsSerArgSerSerArgp 89
441 CGGCATGTACAAGCGCGCAAAATCAAGCATAGCAAAATCATGACGAG 490
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89 roProserProserProthProthAlaSerSerProthSerAlaAlaAla 105
491 CGGCGAGGTTGCGCGCAAGCAAAACCGCGC...CCACCGCATACCA 537
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106 AlaProglYleuIleProlysleuAspThrAlaTyraSpValAlaIleTyl 122
538 GGGGTAAACAATCATCAAGCGCGCGCGGAGGAGCAACCATCAT 587
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122 sAlaAlaAla.....GluAlaHisProArgIleGlnValAlaArgLeuArgH 137
588 CCGCGCGAGCAGCGCTTCTCCGAGGAAGCGCGCGCGTGGGCGG 637
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687 ACAGTCAAG.....GCCTGAACACC 709
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168 o.ThrglyGluLeuGlnIleValAlaAspLysIleAspAlaIlePhe 184
710 TGTTTTTCGTGCGAGCGCGTCCCGCGAG...GACAGGCTCGT.. 754
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185 AlaAlaIleThraAlaAlaAlaAlaProthrsAsnAspLysPheThValPh 201
755 .....TGACA..... 760
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201 eGluSerAlaPheAsnLysAlaLeuAsnGluCysThrglyAlaMet 218
761 .....TCCGCCCGTCCAAAGGGAATTGAACGCGCAACAAG 796
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797 CCCAGCATGCGCGCGTGTCAACCGCATATGATATGATACGCCGT 846
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seq\_name: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:US-08-174-739A-2

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seq_documentation_block:
; Sequence 2, Application US/08174739A
; Patent No. 6265566
; GENERAL INFORMATION:
; APPLICANT: Singh, Mohan Bir
; APPLICANT: Knox, Robert B.
; APPLICANT: Smith, Penelope
; APPLICANT: Avjoglu, Asil
; APPLICANT: Theerakulpisut, Piyada
; TITLE OF INVENTION: Ryegrass Pollen Allergen
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lahive & Cockfield, LLP
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/174,739A
; FILING DATE: 29-DEC-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mandragouras, Amy E.
; REGISTRATION NUMBER: 36,207
; REFERENCE/DOCKET NUMBER: IMI-051DV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 227-7400
; TELEFAX: (617) 227-5941
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 308 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-174-739A-2

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## alignment\_scores:

Quality: 108.50 Length: 213  
Ratio: 0.969 Gaps: 11  
Percent Similarity: 52.582 Percent Identity: 28.169

## alignment\_block:

US-09-303-518D-571 x US-08-174-739A-2 ..

Align seg 1/1 to: US-08-174-739A-2 from: 1 to: 308

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122 sAlaAla.....GluAlaHisProArgGlyGlnValArgArgLeuArg 137
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## seq\_documentation\_block:

; Sequence 69, Application US/09413814  
; Patent No. 6223064  
; GENERAL INFORMATION:  
; APPLICANT: Gesellschaft fuer Biotechnologische Forschung mbH  
; APPLICANT: Bristol-Myers Squibb, Co.  
; APPLICANT: Beyer, Stefan  
; APPLICANT: Bloeker, Helmut

```
; APPLICANT: Brandt, Petra
; APPLICANT: Cino, Paul M
; APPLICANT: Dougherty, Brian A
; APPLICANT: Goldberg, Steven L
; APPLICANT: Hoffe, Gerhard
; APPLICANT: Mueller, Joachim
; APPLICANT: Reichenbach, Hans
; TITLE OF INVENTION: DNA sequences for enzymatic synthesis of polyketide or
; FILE REFERENCE: PCT/US 99/23535
; CURRENT APPLICATION NUMBER: US/09/413,814
; EARLIER FILING DATE: 1999-10-07
; EARLIER FILING DATE: 1998-10-09
; NUMBER OF SEQ ID NOS: 107
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO: 69
; LENGTH: 372
; TYPE: PRT
; ORGANISM: Sorangium cellulosum
US-09-413-814-69
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Quality: 104.00 Length: 297  
Ratio: 0.788 Gaps: 17  
Percent Similarity: 44.444 Percent Identity: 26.263

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223 GCGCTTTTGGGAAACGCAAAATGCGGTTTGAACCTGCCCCCGCTT 272
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273 TTTCAAAAACCGAGACATCGCAACATGTTCAAAGCGTACAGCGCT 322
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323 GGAACACGTGCGACGAGCTTTGGACAGGCGAGAGGCTGCTGTTCAATC 372
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198 nGlyAspLeuAlaArgArgProAspArgGlyArgGlyAlaAlaCysArg 215
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411 CATCGACCA..... 419
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282 AspGlyalaglyalavalalaglyglyProThrAlaLeuArgly 298
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seq_documentation_block:
; Sequence 6, Application us/08455073A
; Patent No. 5876949
; GENERAL INFORMATION:
; APPLICANT: Gideon Dreyfuss
; APPLICANT: Mikiko C. Slomi
; APPLICANT: Yan Zhang
; TITLE OF INVENTION: Fragile X Related Proteins, Compositions And Methods
; TITLE OF INVENTION: Of Making And Using The Same
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Woodcock, Washburn, Kurtz, Mackiewicz & No. 5876949rls
; STREET: One Liberty Place, 46th floor
; CITY: Philadelphia
; STATE: PA
; COUNTRY: USA
; ZIP: 19103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/455,073A
; FILING DATE: 31-MAY-1995
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Deluca, Mark
; REGISTRATION NUMBER: 33,229
; REFERENCE/DOCKET NUMBER: UPN-2201
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-3100
; TELEFAX: (215) 568-3439
; INFORMATION FOR SEQ ID NO: 6:
; LENGTH: 673 amino acid residues
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
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US-08-455-073A-6

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  Quality: 102.50      Length: 223
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  Percent Similarity: 47.534      Percent Identity: 23.767

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577 GCACCATCATCTCGCGCGCACGCGCTTCGCCGACGAAGAGGCGCG 626
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627 CGTGTGGCGGATTTTTCGCGCAACCTGCATACACCATGACACTGCGCG 676
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seq.name: /cgn2_6/ptodata/1/1aa/6B_COMB.pep:us-08-818-112-74

seq_documentation_block:
; Sequence 74, Application us/08818112
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Patent No. 6290969  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skelky, Yasir A.W.  
APPLICANT: Dillon, David C.  
APPLICANT: Campos-Neto, Antonio  
APPLICANT: Houghton, Raymond  
APPLICANT: Vevdick, Thomas S.  
APPLICANT: Twardzik, Daniel R.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY  
NUMBER OF SEQUENCES: 153  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/818,112  
FILING DATE: 13-MAR-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.411C6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 74:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 309 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-818-112-74

alignment\_scores:  
Quality: 100.00 Length: 212  
Ratio: 1.020 Gaps: 11  
Percent Similarity: 46.226 Percent Identity: 28.302

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352 GCGCAAGGCTGCTGTTCATCAGCGGACATCGGACGCTAGCATTTGGG 401
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36 LnsparGalaSerValSerAlaThrSerAlaArg..... 47
402 CGGACGCTACATCAGCGACGCTTCCGTCACCTGACCGCATGTACA 451
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48 .....ProPargArgHis..... 52
452 AGCGCGCAAAATCAAGCGATAGACAAATATGACGCGCGGCGAGGTG 501
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53 .....ProAlaGlnGlyHisArgArgArgValAlaLalProSerGlyGly 67
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502 CGCGCAAA.....AGCGAAACCGC 521
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67 rGatGArgProHisProHisHisValGlnProAspArgArgArg 83
522 GCCCACCAGCATACAGGGGTCAA...ACAAATCATCAAGCGCCGCGCG 568
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84 ProAlaLeuLeuAspArgThrGlnProAlaGlnHisProAspProHisArg 100
569 CGGCGGCGCAACCATCATCTCCCGGACGAGCTCCCTTCGCGAGGAA 618
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100 G...ArgGlyProAlaAspProGlyValArg.....GlyArgGly 114
619 GCGCGCGCGCTGCGCGCGATTTTTCGCGCAACCTGCATACCATGAC 668
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114 rGluAlaArgArgValAlaAspArgGlyArgGlnProAspArgAspAlaAsp 130
669 ACTGGCGCGCAAAATTTGGCACAGCT.....CAAAGCG 700
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131 HisGlyAlaProValAlaArgGlyArgGlyProHisArgGlyValGlnHisArg 147
701 TGAAAACCTGTTTCTGCTGCAAGCGCTGCG.....C 735
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147 gGlyGlyProValAlaPheValAlaArgArgValProGlyValAlaArgCysAlaHisA 164
736 GACGCAAGGCTGCTGTTCGACATCGCGCGCGTCCAAAGGGAATTGAA 785
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164 rArgGlyHisArgArgValAlaAlaPro.....GlyGlnGlyAspVal 178
786 CGGCAACAAAGCCGACGATGCGCGCGCTGTCAACCG 821
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179 LeuArgAlaGlyLeuAlaArgValGlnArgLeuArgPro 190
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seq\_name: /cgn2\_6/prodata/1/iaa/5b\_comb.pep:us-08-818-111-75

seq\_documentation\_block:  
Sequence 75, Application us/08818111  
Patent No. 6338852  
GENERAL INFORMATION:  
APPLICANT: Reed, Steven G.  
APPLICANT: Skelky, Yasir A.W.  
APPLICANT: Dillon, David C.  
APPLICANT: Campos-Neto, Antonio  
APPLICANT: Houghton, Raymond  
APPLICANT: Vevdick, Thomas S.  
APPLICANT: Twardzik, Daniel R.  
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF  
NUMBER OF SEQUENCES: 148  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: SEED and BERRY LLP  
STREET: 6300 Columbia Center, 701 Fifth Avenue  
CITY: Seattle  
STATE: Washington  
COUNTRY: USA  
ZIP: 98104-7092  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/818,111  
FILING DATE: 13-MAR-1997  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Makl, David J.  
REGISTRATION NUMBER: 31,392  
REFERENCE/DOCKET NUMBER: 210121.417C6  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
INFORMATION FOR SEQ ID NO: 75:  
SEQUENCE CHARACTERISTICS:



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522 GCCCACCAGCATACAGGGGTCA...ACAAATCATCAAGCCCTGGCG 568
84 ProAlaLeuLeuAspArgThrGlnProAlaGlnHisProAspProHisAsp 400
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619 GCGGCGGCGCTGTGGCGGAGATTTTTCGCAACCTGCATACACCAATGAC 668
114 rGleuArgArgValAspAspArgGlyLeuGlnProAspArgAspAlaAsp 130
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131 HisGlyAlaProValArgGlyArgGlyProHisArgGlyValGlnHisAsp 147
701 TGAACACCTGTTTCTGCTGCGAGCGGCTGGC.....C 735
147 gGlyGlyProValArgValArgValArgValArgValArgValArgVal 164
736 GAGGAGACAGGCTTCTGTGCACATCCGCGCGGCGGAGGAGGATTTGAA 785
164 rGArgGlyHisArgArgValAlaAlaPro.....GlyGlnGlyAspVal 178
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179 LeuArgAlaGlyLeuArgValGlyArgGlyLeuArgPro 190

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seq\_name: /cgn2\_6/ptodata/1/1aa/6B\_COMB.pep:US-09-056-226-2

seq\_documentation\_block:

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; Sequence 2, Application US/09056226B
; Patent No. 6177614
; GENERAL INFORMATION:
; APPLICANT: Colasanti, Joseph J.
; TITLE OF INVENTION: Control of Floral Induction in Plants
; FILE REFERENCE: CSHL94-04A4
; CURRENT APPLICATION NUMBER: US/09/056,226B
; EARLIER FILING DATE: 1998-04-07
; EARLIER APPLICATION NUMBER: US 09/000,640
; EARLIER FILING DATE: 1997-12-30
; EARLIER APPLICATION NUMBER: US 08/804,104
; EARLIER FILING DATE: 1997-02-20
; EARLIER APPLICATION NUMBER: PCT/US96/03466
; EARLIER FILING DATE: 1996-03-15
; EARLIER APPLICATION NUMBER: US 08/406,186
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 436
; TYPE: PRT
; ORGANISM: Zea mays
US-09-056-226-2

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alignment\_scores:

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Quality: 100.00 Length: 217
Ratio: 1.042 Gaps: 9
Percent Similarity: 44.240 Percent Identity: 23.502

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alignment\_block:

US-09-303-518D-571 x US-09-056-226-2 ..

Align seq 1/1 to: US-09-056-226-2 from: 1 to: 436

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40 Alaserlathralaproleupropioproglnproalagl 56
171 .....CGTCGCAATATGCGGAGCGGCTTGAACCCGACGCG 213

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56 uLeuThrAsnLysGlnAlaAlaGlyGlyLysArgLysArgSerGlnP 73
214 AGGTCNAAGCCGTTTTCGCGAAGCAAAATGCGGTTTGGAACTTCG 263
73 roGlyAsnPro.....AspProGlyAlaGlyValIleAlaLeuSer 86
264 CCGCGCGTTTTCAAAAACCGAGACATCGAACAATGTTCAAGCGG 313
87 ProArgThrLeuValAlaThrAsnArgPheValCysGluIleCysAsn... 102
314 TACACGCTGGGAACACGTGCACGAGCTTTGGACAAGGCGGAGGCTG 363
103 .....LysGlyPheGlnArgAspGlnAsnLeuG 112
364 CTGTTCATCAGCGCGGCATCG.....CAGTCAGATTTGGCGG 404
112 InLeuHisArgArgGlyHisAsnLeuProTrpLysLeuArgGlnArgSer 128
405 ACCTACATCAGCGAGCGCTTCCTGTCACCTGACCGCGCATGTACAA 454
129 SerLeuValValProSerSerSerAla..... 137
455 CGCGCAAAATCAAGCATGACAAATATGACGAGCGGCGGAGGTGCGC 504
138 .....AlaAlaGlySerGlyGly 144
505 GGCACAAAGCAACCGCGCCACCGCATACAAAGGCTCAAAATATAT 554
144 rGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGln 151
555 CAAGGCGCTGCGCGGAGGAGCAACATCATCTGCGCGACACGCTCC 604
152 .....AlaAlaProThrPr 156
605 CTTCGCGAGAGAGCGCGGCTGTGGCGGATTTTTCGCAAACT 654
156 O.....ProArgLysArgValTrpValCysProGlnProThrC 169
655 GATACACCATATGACATGCGGCAAAATGGACACGCAAGCGCGTGA 704
169 yValHisHisAspProAlaArgAlaLeuGlnLysPheTrpGlyIle 185
705 AACCTGTT.....TTCTGCTGCGAAGCG 729
185 sYsHisPheSerArgLysHisGlyGlyLysArgTrpCysGlyLysArg 201

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seq\_name: /cgn2\_6/ptodata/1/1aa/5A\_COMB.pep:US-08-337-602-3

seq\_documentation\_block:

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; Sequence 3, Application US/08337602
; Patent No. 5623051
; GENERAL INFORMATION:
; APPLICANT: Gatterall, William A.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR SCREENING
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSER: SEED AND BERRY
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98042-7092
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/337,602
; FILING DATE: 10-NOV-1994

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CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Sharkey, Richard G.  
REGISTRATION NUMBER: 32,629  
REFERENCE/DOCKET NUMBER: 920010.602  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (206) 622-4900  
TELEFAX: (206) 682-6031  
TELEX: 3723836 SEEDANDBERRY  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 434 amino acids  
TYPE: amino acid  
STRANDEDNESS:  
TOPOLOGY: linear  
US-08-337-602-3

alignment\_scores:  
Quality: 99.00 Length: 309  
Ratio: 0.780 Gaps: 16  
Percent Similarity: 41.100 Percent Identity: 22.330

alignment\_block:  
US-09-303-518d-571 x US-08-337-602-3 ..

Align seq 1/1 to: US-08-337-602-3 from: 1 to: 434

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   |||  ::|||  ::|||  ::|||  ::|||  ::|||
92 CGCTTCTCTGTGACACGCTGGGAAACCGCTCGACATCTGCGGTT 141
   |||  ::|||  ::|||  ::|||  ::|||  ::|||
109 IValGluLeuGlyArgAspGlyAlaArg.....GlyProV 121
   |||  ::|||  ::|||  ::|||  ::|||  ::|||
142 TACCTTTAAAGAAACCGCGCGCATGCTGCGCAATATGCGCGAGC 191
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121 aIGlyGlyLysAlaArgProGluAlaAlaGlu.....AlaProGlu 134
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192 GGGTTGACCCCGACACGACGAGCGTCAAAACCGTTTGGCGAAACG 241
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135 GlyValAspPro..... 138
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242 CAAATGCGGTTTGAATGCCCCCGGTTTCAAAAACCGAAGAC 291
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139 .....ProArg.....ArgHisAsnArgH 145
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145 HisArgAspLysAspLys.....ThrProAlaAlaGly 155
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156 ..AspGlnAspArgAlaGluAlaProLysAlaGluSerGlyGluProG 171
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192 ...GluAlaArgSerGluArgGlyArgGlyProGlyGluGlyLys 207
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506 GCAAAAGCAAAACCGCGCCACGCGCATCAAGGGT.....CAA 546
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207 gArg.....HisHisArgArgGlySerProGluGlu 218
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547 CAATATCATAGGCGCTGCGCGGCGAGCAACATCAT.....CCT 590

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591 GCCCGACACGCTCCCTTCCGACGAGCGCGCGCTGTGGCGGAT 640
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235 SerLysGluCysAlaGluAlaLysGlyGluArg..... 246
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641 TTTTGGCAACCTGCATACACATGACACTGCGGCAAAATTTGCACAC 690
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seq_documentation_block:
? Sequence 3, Application US/08558135
? Patent No. 6090631
? GENERAL INFORMATION:
? APPLICANT: Catterall, William A.
? TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR SCREENING
? TITLE OF INVENTION: FOR PRESYNAPTIC CALCIUM CHANNEL BLOCKERS
? NUMBER OF SEQUENCES: 7
? CORRESPONDENCE ADDRESS:
? ADDRESSEE: SEED and BERRY LLP
? STREET: 6300 Columbia Center, 701 Fifth Avenue
? CITY: Seattle
? STATE: Washington
? COUNTRY: USA
? ZIP: 98104
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patent Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/558,135
? FILING DATE: 13-NOV-1995
? CLASSIFICATION: 436
? ATTORNEY/AGENT INFORMATION:
? NAME: Sharkey, Richard G.
? REGISTRATION NUMBER: 32,629
? REFERENCE/DOCKET NUMBER: 920010.602C1
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (206) 622-4900
? TELEFAX: (206) 682-6031
? INFORMATION FOR SEQ ID NO: 3:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 434 amino acids
? TYPE: amino acid
? STRANDEDNESS:
? TOPOLOGY: linear
? US-08-558-135-3

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alignment\_scores:

Quality: 99.00 Length: 309  
Ratio: 0.780 Gaps: 16  
Percent Similarity: 41.100 Percent Identity: 22.330

alignment\_block:

US-09-303-518d-571 x US-08-558-135-3 ..

Align seg 1/1 to: US-08-558-135-3 from: 1 to: 434

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109 lValGluLeuGlyArgAspGlyAlaArg.....GlyProV 121
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121 aGlyGlyLysAlaArgProGluAlaGlu.....AlaProGlu 134
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135 GlyAlaSparPro..... 138
242 CAAATGCGGCTTTGGAACCTGCCCGCGCTTTTCAAAAACCGGAGAGC 291
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139 .....ProArg.....ArgHisHisArgH 145
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207 gArg.....HisHisArgArgGlySerProGluGlu 218
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547 CAATATCATGAGCGCTGCGCGCGGCGGAGGCAACCATCAT.....CCT 590
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218 lAlaGluAlaArgGluProArgArgHisArgAlaHisArgHisGluAla 234
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235 SerLysGluLysAlaGlyAlaLysGlyAlaArg..... 246
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258 rgGluAlaGluSerGly.....GluGluProAlaArgArg 269
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270 HisArgAlaArgHisLysAlaGluProAlaHisGluAlaValGlyLys 286
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804 .....TGCCGCGGTGCAACCGCAATACCAATATTTGAT 839
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seq\_name: /cgn2\_6/prodata/1/laa/6B\_COMB.pep:US-09-450-072-81

seq\_documentation\_block:

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; Sequence 81, Application US/09450072
; Patent No. 6358734
; GENERAL INFORMATION:
; APPLICANT: Delcayre, Alain
; TITLE OF INVENTION: Compounds for Treatment of Infectious and Immune System Disord
; TITLE OF INVENTION: and Methods for Their Use
; FILE REFERENCE: 11000.1042c1
; CURRENT APPLICATION NUMBER: US/09/450.072
; EARLIER APPLICATION NUMBER: 09/351.348
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 81
; LENGTH: 582
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Made in a lab
US-09-450-072-81

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alignment\_scores:

Quality: 99.00 Length: 271  
Ratio: 0.798 Gaps: 12  
Percent Similarity: 45.756 Percent Identity: 23.616

alignment\_block:

US-09-303-518d-571 x US-09-450-072-81 ..

Align seg 1/1 to: US-09-450-072-81 from: 1 to: 582

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137 AlaAlaAlaValGlyValLeu.....GlyProGluArgGluHisArg 150
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173 TCGCCAAATATGCGGACGCGGCTTTGAACCCGACACGACGCGTCAA 222
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150 gAlaArg...AlaAspGlySerLysSerAlaLeuValAlaSerProp 166
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223 GCGGTTTGGGAAACGCAAAATGCGGTTTGAACCTTGGACCCCGCGGT 272
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166 roArgAlaAlaSerSerAlaProAlaSerLysGlyLeuGlyPro..... 180
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273 TTTCAAAAACCGGAAACATGCAAAATGTTCAAGCGGTACAGGCT 322
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181 .....SerGlyGluHis...ThrSerLysHisProArgSerSer 193
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193 nGlySerProThrValHisLysSerGlnSerMetAsnAlaAlaSerSerG 210
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373 ACGCCGACATGCGACGCTACGATTTGGGCGGACGCTACATGACGACGA 422
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292 ATCGAATCATGTTCAGACGGGTACAGCGCTGGGAGACAGCTGCAGCAGC 341
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406 CGTACATCAGCAGCAGCTTCGCTTCACCTGACCGCCATGTACAGCC 455
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916 gag.....HisHlsargargGlySerProGluGlu 927
547 CAATCATCAGAGCCCTGCGCGCGGCGGAGCAACCATCAT.....CT 590
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591 GCCCGACACGTCCTCTCCGCGAGAGCGCGCGCTGTGGCGGATT 640
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944 SerLysGluCysalaglyAlaLysGlyGluarg..... 955
641 TTTCGGCAACCTGCATACACATGACACGCGGCGCAATTTGGCACAC 690
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956 .....AlaargHlsargGlyGlyProargAlaGlyPro 967
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967 rgglalagluSerGly.....GluGluProalaaarg 978
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seq_documentation_block:
; Sequence 48, Application US/08223305C
; Patent No. 5851824

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GENERAL INFORMATION:
; APPLICANT: Harpold, Michael
; APPLICANT: Ellis, Steven
; APPLICANT: Williams, Mark
; APPLICANT: Feldman, Daniel
; APPLICANT: McCue, Ann
; APPLICANT: Brenner, Robert
; TITLE OF INVENTION: HUMAN CALCIUM CHANNEL COMPOSITIONS AND
; TITLE OF INVENTION: METHODS
; NUMBER OF SEQUENCES: 57
; CORRESPONDENCE ADDRESS:
; ADDRESS: Brown, Martin, Haller & McClain

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STREET: 1660 Union Street
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92101-2926
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 1.5
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/223,305C
FILING DATE: April 4, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/868,354
FILING DATE: April 10, 1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/745,206
FILING DATE: 15-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/620,250
FILING DATE: 30-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/482,384
FILING DATE: 20-FEB-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/603,751
FILING DATE: 04-APR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US89/01408
FILING DATE: 04-APR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/176,899
FILING DATE: 04-APR-1988
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L.
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 52516 (P519739)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619)238-0999
FAX: (619)238-0062
INFORMATION FOR SEQ ID NO: 48:
SEQUENCE CHARACTERISTICS:
LENGTH: 2237 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: Internal
US-08-223-305C-48

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alignment_scores:
Quality: 99.00 Length: 309
Ratio: 0.780 Gaps: 16
Percent Similarity: 41.100 Percent Identity: 22.330

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92 CGCTTCCTGTCTGACACGCGCTGGAAACCGGCTCGGACATCTGCGTT 141
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956 .....AlaArgHisArgGlyGlyProAlaGluAlaGlyProA 967
691 GTCAAGGCGTGAACCCCTGTTTCTGCTGCGAAGCCGCGCGGACG 740
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804 .....TGCAGCGCTGTTCACCGGCAATACCGAATATTGGAT 839
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seq_name: /cgn2.6/ptodata/1/1aa/6A_COMB.pep:US-08-713-118-2
seq_documentation_block:
; Sequence 2, Application US/08713118
; Patent No. 6040436
; GENERAL INFORMATION:
; APPLICANT: Franco, Rodrigo
; APPLICANT: Sun Chen, Ai Ru
; APPLICANT: Suey, David J.
; TITLE OF INVENTION: NUCLEIC ACID ENCODING HUMAN NEURONAL
; TITLE OF INVENTION: CALCIUM CHANNEL SUBUNITS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/713,118
; FILING DATE: 16-SEP-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Macta, Elizabeth W.
; REGISTRATION NUMBER: 38,236
; REFERENCE/DOCKET NUMBER: ACC96-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-9540
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2337 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-713-118-2
alignment_scores:

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Quality: 99.00 Length: 309
Ratio: 0.780 Gaps: 16
Percent Similarity: 41.100 Percent Identity: 22.330

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seq_documentation block:
; Sequence 2, Application US/09452007
; Patent No. 6140485
; GENERAL INFORMATION:
; APPLICANT: Franco, Rodrigo
; APPLICANT: Sun Chen, Ai Ru
; APPLICANT: Suey, David J.
; TITLE OF INVENTION: NUCLEIC ACID ENCODING HUMAN NEURONAL
; TITLE OF INVENTION: CALCIUM CHANNEL SUBUNITS
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Millitia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173-4799
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/452,007
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/713,118
; FILING DATE: 16-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Mata, Elizabeth W.
; REGISTRATION NUMBER: 38,236
; REFERENCE/DOCKET NUMBER: ACC96-01
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 617-861-6240
; TELEFAX: 617-861-9540
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2337 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-452-007-2

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      Percent Similarity: 41.100      Percent Identity: 22.330

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 US-09-268-163-4

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 Quality: 99.00 Length: 309  
 Ratio: 0.780 Gaps: 16  
 Percent Similarity: 41.100 Percent Identity: 22.330

alignment\_block:  
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979 HisArgAlaArgHisLysAlaGlnProAlaHisGluAlaValGlyLysGly 995
   ||||| :||| :||| :||| :||| :||| :||| :||| :|||
791 ACAAGCCCGACGA..... 803
   ||||| :||| :||| :||| :||| :||| :||| :||| :|||
995 uThrThrGluLysGluAlaThrGluLysGluAlaGluLleValGluAla 1012
   ||||| :||| :||| :||| :||| :||| :||| :||| :|||
804 .....TGCCGCGGTGTCAACCGCAATACCGAATATGAT 839
   ||||| :||| :||| :||| :||| :||| :||| :||| :|||
1012 sPlysGluLysGluLeuArgAsnHisGlnProArgGluProHisCysAsp 1028
   ||||| :||| :||| :||| :||| :||| :||| :||| :|||
840 ACGCGTTTCCGACGCGAGTATCTGTT 866
   ||||| :||| :||| :||| :||| :||| :||| :||| :|||
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seq\_name: /cgn2\_6/ptodata/1/iaa/5B\_COMB.pep:US-08-997-080-154

seq\_documentation\_block:

Sequence 154, Application US/08997080

Patent No. 5968524

GENERAL INFORMATION:

APPLICANT: WATSON, JAMES D.

APPLICANT: TAN, PAUL L.J.

TITLE OF INVENTION: METHODS AND COMPOUNDS FOR THE TREATMENT OF IMMUNOLOGICALLY-

NUMBER OF SEQUENCES: 194

CORRESPONDENCE ADDRESS:

ADDRESSEE: Law Offices of Ann W. Speckman

STREET: 2601 Elliott Avenue, Suite 4185

CITY: Seattle

STATE: WA

COUNTRY: USA

ZIP: 98121

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible

OPERATING SYSTEM: DOS

SOFTWARE: FastSeq for Windows Version 2.0

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/997,080

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Sleath, Janet

REGISTRATION NUMBER: 37,007

REFERENCE/DOCKET NUMBER: 11000.1007

TELECOMMUNICATION INFORMATION:

TELEPHONE: 206-269-0565

TELEFAX: 206-269-0563

TELEX:

INFORMATION FOR SEQ ID NO: 154:

SEQUENCE CHARACTERISTICS:

LENGTH: 748 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

US-08-997-080-154

alignment\_scores:

Quality: 98.00 Length: 247

Ratio: 0.883 Gaps: 15

Percent Similarity: 44.939 Percent Identity: 26.721

alignment\_block:

US-09-303-518D-571 x US-08-997-080-154 ..

1 APPLICANT: Prestidge, Ross  
2 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR  
3 TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF  
4 NUMBER OF SEQUENCES: 194 MYCOBACTERIAL INFECTIONS  
5 CORRESPONDENCE ADDRESS:  
6 ADDRESSEE: Law Offices of Ann W. Speckman  
7 STREET: 2601 Elliott Avenue, Suite 4185  
8 CITY: Seattle  
9 STATE: WA  
10 COUNTRY: USA  
11 ZIP: 98121  
12  
13 COMPUTER READABLE FORM:  
14 MEDIUM TYPE: Diskette  
15 COMPUTER: IBM Compatible  
16 OPERATING SYSTEM: DOS  
17 SOFTWARE: FASTED for Windows Version 2.0  
18 CURRENT APPLICATION DATA:  
19 APPLICATION NUMBER: US/08/997,362  
20 FILING DATE:  
21 CLASSIFICATION:  
22 PRIOR APPLICATION DATA:  
23 APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/873,970  
24 FILING DATE: June 12, 1997  
25 APPLICATION NUMBER: U.S. Patent Application No. 5985287 08/705,347  
26 FILING DATE: August 29, 1996  
27 ATTORNEY/AGENT INFORMATION:  
28 NAME: Sleath, Janet  
29 REGISTRATION NUMBER: 37,007  
30 REFERENCE/DOCKET NUMBER: 11000.1002c2  
31 TELECOMMUNICATION INFORMATION:  
32 TELEPHONE: 206-269-0565  
33 TELEFAX: 206-269-0563  
34 TELEX:  
35 INFORMATION FOR SEQ ID NO: 154:  
36 SEQUENCE CHARACTERISTICS:  
37 LENGTH: 748 amino acids  
38 TYPE: amino acid  
39 STRANDEDNESS: single  
40 TOPOLOGY: linear  
41  
42 US-08-997-362-154

[illegible]











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CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/557,309B
FILING DATE: 14-NOV-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Makl, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.422
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 48:
SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
US-08-557-309B-48

alignment_scores:
Quality: 95.50      Length: 118
Ratio: 1.425        Gaps: 7
Percent Similarity: 56.780      Percent Identity: 30.508

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20 OlenuYsSerArgAlaAlaSerSerSerValValArgPheSer 37
150 AAGAGAAAGCCGCGCGCGCA.....TCGTGCGCAATATGCGGCGCGG 193
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37 TgCysThrSerSerArgCysCysAlaSerSerSerCysAlaArg 53
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65 ArgSer.....SerSerValValArgPheSer...SerArgCysThr 79
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79 eSerSerArgCysCys.....AlaSerSerSerCysAlaArg 92
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seq_documentation_block:
; Sequence 48, Application US/08834306
; Patent No. 6054135
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skelky, Yasir A.W.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Houghton, Raymond L.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE DETECTION AND
; PREVENTION OF

```



